



**MPM 2D1: Principles of Mathematics,
Grade 10, Academic**
St. Thomas of Villanova Catholic High School
 2800 North Townline, R.R. #3, LaSalle Ontario, N9A 6Z6
 519 734 6444



Instructors: Mrs. S Crep	Prerequisites: MPM 1D0	Textbook: Principles of Mathematics 10
Course Code: MPM 2D1	Credit Value: 1	Time Frame: Semester 2, 2012

Course Description:

This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Course Organization and Units of Study

Every effort will be made to cover all topics within the following strands.

Strand 1	Quadratic Relations of the Form: $y = ax^2 + bx + c$
Strand 2	Analytic Geometry
Strand 3	Trigonometry

Evaluation of Student Achievement

All students will be assessed frequently and given multiple opportunities to practice and demonstrate their level of achievement of the course expectations.

Term Work – 70% of Final Grade

Achievement Categories	Weight
Knowledge/Understanding	50%
Thinking	20%
Application	15%
Communication	15%

Weights Assigned to Term Tasks (Out of 10)

Unit tests; unit tasks; major projects	8 – 10
Group work presentation; mid-unit assignment or task; research or minor projects	4 – 6
Quiz; short assignment; short task; homework presentation; homework assignment; journals	1 – 2

Final Evaluation – 30% of Final Grade

Key Policies

Late Policy: Parents of students who are chronically late to class (more than 3 times) will be contacted by the teacher and consequences may be issued. At the 7th late to class instance, the student will be referred to a vice principal. Students who are habitually late may be suspended.

Learning Skills

- Teachers will support students in finding connections between the Learning Skills and Catholic Graduate Expectations.
- Teachers will provide multiple opportunities for students to demonstrate their learning skills in the following categories:
 - Responsibility
 - Organization
 - Independent Work
 - Collaboration
 - Initiative
 - Self-Regulation
- The learning skills will be evaluated using the four-point scale:
 - E – Excellent
 - G – Good
 - S – Satisfactory
 - N – Needs Improvement

Submission of Late Assignments:

(Board Policy)

- Assignments are due at the beginning of class unless otherwise stated.
- If a student submits assignments late, the teacher:
 - Must document or track late submissions. Teachers may use the Missed or Late Assignment Student Contract.
 - Must consult with the student and determine a plan of action to correct this behavior. Teachers may use a variety of methods for dealing with late and missed assignments.
 - May contact the student's parent/guardian.
 - May need to inform Administration or school success team.
- Teachers will use their professional judgment when extenuating circumstances arise.
- If a student fails to submit a major assignment on time, the student will be given a new due date at the teacher's discretion. The teacher may use the same assignment or modify the original one. Failure to submit the original/alternate assignment on the second due date may result in a mark of zero.

Plagiarism:

(Board Policy)

If it is determined that a student has plagiarized, the following will happen:

- The plagiarism will be reported to the school administration,
- The student will receive a mark of zero (0),
- The student will be provided an opportunity to resubmit the assignment,
- The first assignment will be recorded in Markbook[®] as a zero (0),
- The second assignment will also be recorded in Markbook[®] with the same weight,
- The parent/guardian will be notified and other consequences, including suspension, may be assigned.

Class Notes:

- Being properly prepared to work every day is an essential component of success in this course. Students should bring their textbook, notebook, mathematical set, and calculator to class every day.
- A three-ring binder (for use solely in this course) is recommended. This binder should contain loose-leaf paper, graph paper, and dividers. The use of pencil is suggested at all times (even for class notes).
- Because of the cumulative nature of the mathematics curriculum, completion of assigned homework is essential. In addition, continuous review after each lesson is recommended.
- Students are responsible for work missed during absences. For absences on test days or major assessment days, refer to the Math Department's Missed Test (Assessment) Policy.
- Students will only be admitted to class if they are in full uniform or have permission from the office to be out of uniform.
- Students may bring bottled water to class. Food is not allowed in the classroom.

Resources: Materials loaned to students remain the property of St. Thomas of Villanova High School. Students are responsible to hand in resources assigned to them in the same condition they were given. Damage or loss of materials obligates the student to pay for the replacement of the lost or damaged materials. Of particular importance is the care of the TI graphing calculators, each valued at \$140.00 and of the *Principles of Mathematics 10* textbook valued at \$75.65. Students are required to cover the textbook.

PARENT/STUDENT ACKNOWLEDGMENT AND AGREEMENT:_____
Parent/Guardian Signature_____
Date_____
Student's Signature_____
Date

Textbook # _____ MPM 2D1

Other Resources Assigned:

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